

**Amendments to the Claims**

Please add new claims 11-17 and amend Claims 3 and 5-10 as follows:

1. (Original)                      An oscillator circuit, comprising:

an oscillating unit comprising an inductance and a variable capacitance element and generating a signal having a frequency of  $n$  times a target frequency; and

a divider circuit dividing a signal generated by the oscillating unit into  $1/n$  frequency, wherein

the oscillating unit comprising an inductance and a variable capacitance element, and the divider circuit are formed on a semiconductor integrated circuit board.

2. (Original)                      An oscillator circuit, comprising:

an oscillating unit comprising an inductance and a variable capacitance element and generating a signal having a frequency of  $n$  times a target frequency;

a control voltage generation circuit generating a control voltage for controlling an oscillation frequency of the oscillating unit and outputting the the control voltage to the oscillating unit; and

a divider circuit dividing a signal generated by the oscillating unit into  $1/n$  frequency, wherein

the oscillating unit comprising an inductance and a variable capacitance element, the control voltage generation circuit and the divider circuit are formed on a semiconductor integrated circuit board.

3. (Currently Amended)        The oscillator circuit ~~either in claim 1 or 2~~, wherein said oscillating unit comprises a plurality of MOSFETs, an inductance and a variable capacitance element.

4. (Original)                      The oscillator circuit in claim 2, wherein said oscillating unit comprises a plurality of MOSFETs, an inductance and a variable capacitance element, and said control voltage generation circuit controls an oscillation frequency of the oscillating unit by outputting a control voltage to the variable capacitance element for changing the capacitance of the variable capacitance element.

5. (Currently Amended)              The oscillator circuit ~~either~~ in claim 1, ~~2, 3 or 4~~ wherein said oscillating unit comprises a first and a second MOSFETs, an inductance and a variable capacitance element;

either the source or drain of the first MOSFET is connected with the inductance and the variable capacitance element; the gate of the first MOSFET is connected with the source or drain of the second MOSFET; and the gate of the second MOSFET is connected with the source or drain of the first MOSFET.

6. (Currently Amended)              The oscillator circuit in ~~either one of claims 1 through 4~~ claim 1, wherein said oscillating unit comprises a first and a second MOSFETs, an inductance, a capacitor and a variable capacitance element;

either the source or drain of the first MOSFET is connected with the inductance, the gate of the first MOSFET is connected with either the source or drain of the second MOSFET, the gate of the second MOSFET is connected with either the source or drain of the first MOSFET, and either the source or drain of the first MOSFET is connected with the variable capacitance element by way of the capacitor; and

a control voltage outputted from said control voltage generation circuit is applied to the variable capacitance element so as to change the capacitance thereof and thereby controlling an oscillation frequency.

7. (Currently Amended) The oscillator circuit in ~~either one of claims 1 through 6~~ claim 1, wherein said variable capacitance element comprises a MOSFET.

8. (Currently Amended) The oscillator circuit in ~~either one of claims 2 through 7~~ claim 1, wherein said a control voltage generation circuit detects a phase difference between a divided signal of a signal generated by said oscillating unit and ~~the~~ a reference signal, and outputs a control voltage according to the phase difference.

9. (Currently Amended) The oscillator circuit in ~~either one of claims 1 through 8~~ claim 1, wherein said control voltage generation circuit is a PLL synthesizer circuit comprising a programmable counter, a phase detection circuit comparing phases between a signal outputted from the programmable counter and the reference signal, and a low-pass filter blocking a high frequency component of an output signal of the phase detection circuit and outputting a DC control voltage to said oscillating unit.

10. (Currently Amended) The oscillator circuit in ~~either one of claims 1 through 9~~ claim 1, wherein said divider circuit includes a divider circuit having a duty ratio of 50%.

11. (New) The oscillator circuit in claim 2, wherein said oscillating unit comprises a plurality of MOSFETs, an inductance and a variable capacitance element.

12. (New) The oscillator circuit in claim 2 wherein said oscillating unit comprises a first and a second MOSFETs, an inductance and a variable capacitance element;

either the source or drain of the first MOSFET is connected with the inductance and the variable capacitance element; the gate of the first MOSFET is connected with the source

or drain of the second MOSFET; and the gate of the second MOSFET is connected with the source or drain of the first MOSFET.

13. (New)                      The oscillator circuit in claim 2 wherein said oscillating unit comprises a first and a second MOSFETs, an inductance, a capacitor and a variable capacitance element;

either the source or drain of the first MOSFET is connected with the inductance, the gate of the first MOSFET is connected with either the source or drain of the second MOSFET, the gate of the second MOSFET is connected with either the source or drain of the first MOSFET, and either the source or drain of the first MOSFET is connected with the variable capacitance element by way of the capacitor; and

a control voltage outputted from said control voltage generation circuit is applied to the variable capacitance element so as to change the capacitance thereof and thereby controlling an oscillation frequency.

14. (New)                      The oscillator circuit in claim 2, wherein said variable capacitance element comprises a MOSFET.

15. (New)                      The oscillator circuit in claim 2, wherein said control voltage generation circuit detects a phase difference between a divided signal of a signal generated by said oscillating unit and the reference signal, and outputs a control voltage according to the phase difference.

16. (New)                      The oscillator circuit in claim 2, wherein said control voltage generation circuit is a PLL synthesizer circuit comprising a programmable counter, a phase detection circuit comparing phases between a signal outputted from the programmable counter and the reference signal, and a low-pass filter blocking a high frequency component of

an output signal of the phase detection circuit and outputting a DC control voltage to said oscillating unit.

17. (New)                      The oscillator circuit in claim 2, wherein said divider circuit includes a divider circuit having a duty ratio of 50%.